

# CATAWBA COUNTY CAPITAL IMPROVEMENT PLAN

## Overview

The County's Capital Improvement Plan is a five-year plan for the scheduling and appropriation of funds for major projects representing significant contributions to the County's overall inventory of physical assets. The types of projects traditionally included in the CIP are major non-recurring expenditures for the:

- construction, purchase or major renovation of buildings, utility systems, schools, solid waste, parks, or other physical structures
- purchase of land for utilities, right of way, schools, solid waste, parks, and sites associated with proposed public buildings
- purchase and implementation of technology
- stimulation of economic development

To be considered as a project in the CIP, the project must meet the following criteria:

- project or equipment life of greater than five years
- estimated cost of at least \$100,000

The CIP is a planning tool as well as a financial plan and fulfills the County's policy of planning ahead for our future facilities and equipment needs. The first year of the CIP represents the actual capital project budget appropriated for that year. Approval of the CIP therefore commits the County to the first year of the capital projects with conditional approval for those projects listed in the four future planning years. Each year, the CIP is updated (with deletion of the "prior year" data and the addition of a planning year) to maintain a five-year plan.

The CIP preparation is concurrent with the budget process. In the fall of each year, all County departments submit their budget requests along with any capital projects for consideration and inclusion in the CIP. The requests are reviewed by the Facilities Director and the Budget Staff and submitted to the County Manager as part of the year's recommended budget.

Capital Projects Fund accounts for financial resources to be used for the acquisition or construction of major capital facilities and include the following:

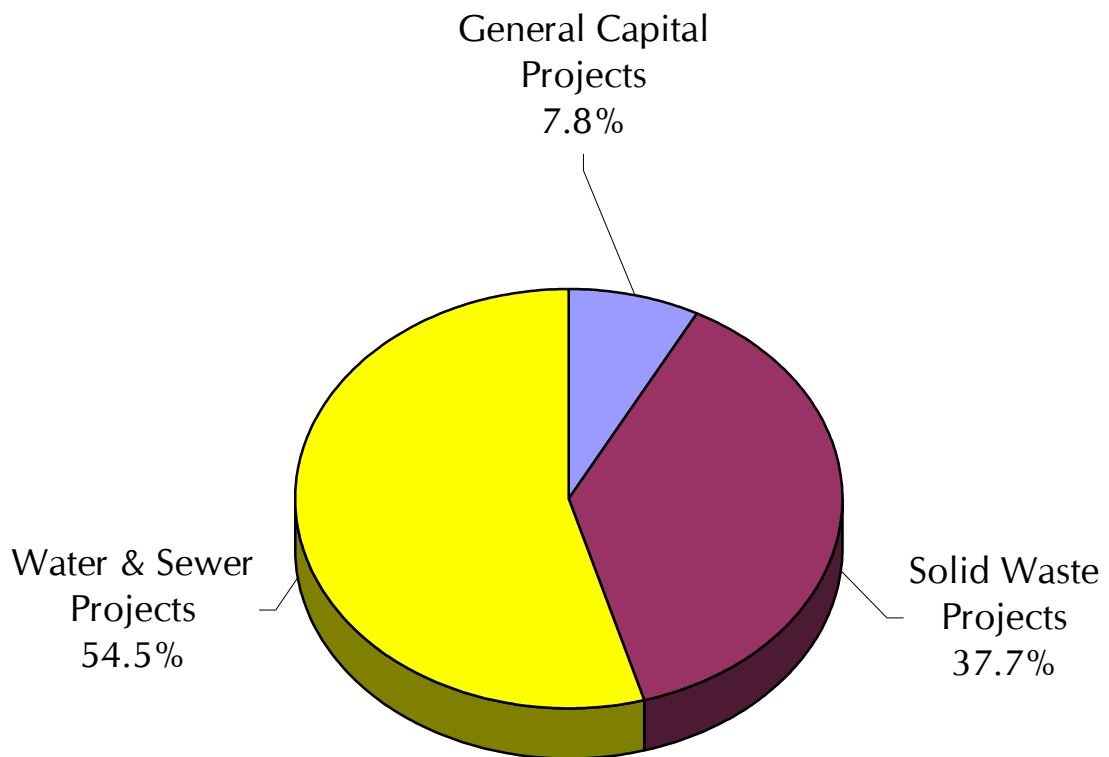
**General Capital Projects Fund** - to account for the financing and construction of all major general government capital projects.

**Water & Sewer Construction Fund** - to account for the financing and construction of all major water and sewer capital projects in the unincorporated sections of the County.

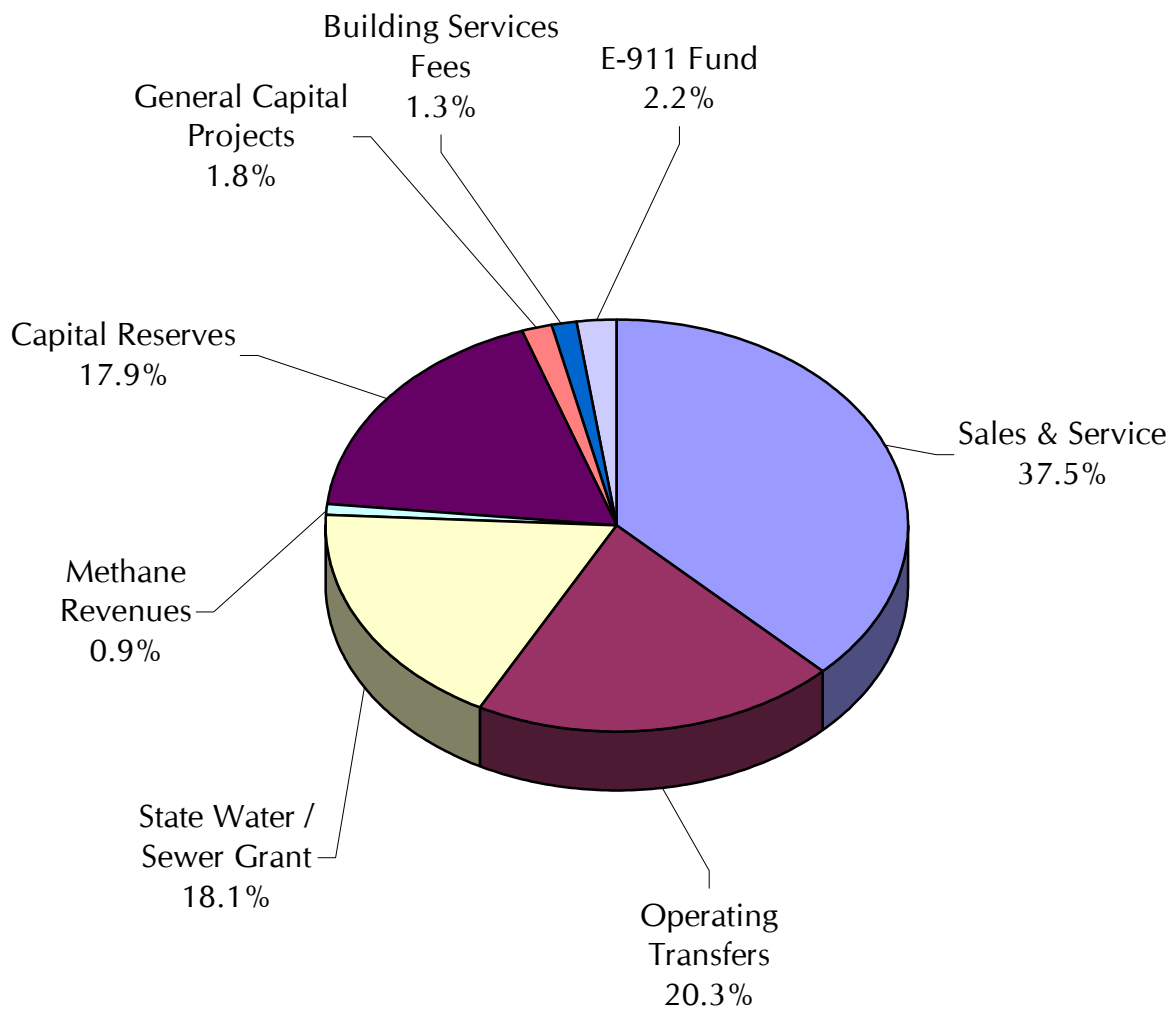
**CAPITAL IMPROVEMENT PLAN**  
**Capital Projects Summary**  
**Fiscal Years 2005/06 through 2009/10**

<b>Project</b>	<b>Fiscal Year 2005/06</b>	<b>Fiscal Year 2006/07</b>	<b>Fiscal Year 2007/08</b>	<b>Fiscal Year 2008/09</b>	<b>Fiscal Year 2009/10</b>	<b>Total</b>
<b><i>Expenditures</i></b>						
General Capital Projects	\$856,909	\$673,000	\$750,000	\$740,000	\$675,000	\$3,694,909
Schools' Capital Projects	\$0	\$9,200,000	\$12,500,000	\$22,000,000	\$9,850,000	\$53,550,000
Water & Sewer Projects	5,980,000	5,160,000	5,460,000	2,860,000	3,248,000	22,708,000
Solid Waste Projects	4,141,040	2,629,731	4,344,695	4,105,521	804,226	16,025,213
<b>Total</b>	<b>\$10,977,949</b>	<b>\$17,662,731</b>	<b>\$23,054,695</b>	<b>\$29,705,521</b>	<b>\$14,577,226</b>	<b>\$95,978,122</b>
<b><i>Funding Sources</i></b>						
Restricted Revenues						
State Water/Sewer Grant	\$1,988,000	\$0	\$0	\$0	\$0	\$1,988,000
Sales & Service						
Tipping Fees	\$4,041,040	\$2,529,731	\$4,244,695	\$4,005,521	\$704,226	\$15,525,213
Domestic Haulers	77,018	78,556	801,295	81,732	83,366	1,121,967
Operating Transfers						
From General Fund	\$2,224,909	\$2,623,000	\$2,739,000	\$2,768,780	\$2,744,355	\$13,100,045
Other Sources						
Methane Revenues	100,000	100,000	100,000	100,000	100,000	500,000
Installment Purchase	0	9,200,000	12,500,000	22,000,000	9,850,000	53,550,000
Capital Reserves	1,964,982	3,131,444	2,669,705	749,488	1,095,279	9,610,898
General Capital Projects	197,000	0	0	0	0	197,000
Building Services Fees	140,000	0	0	0	0	140,000
E-911 Fund	245,000	0	0	0	0	245,000
<b>Total</b>	<b>\$10,977,949</b>	<b>\$17,662,731</b>	<b>\$23,054,695</b>	<b>\$29,705,521</b>	<b>\$14,577,226</b>	<b>\$95,978,123</b>

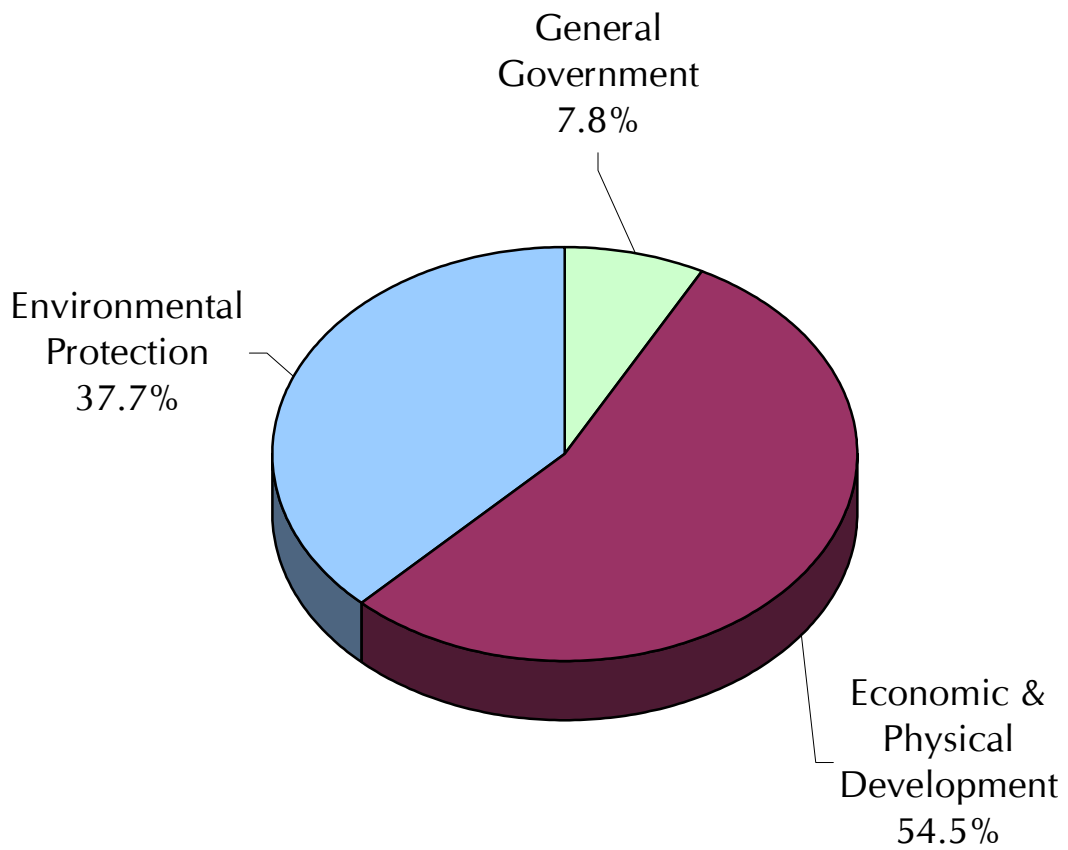
## Capital Projects Expenditure Summary Fiscal Year 2005/06



## Capital Projects Funding Summary Fiscal Year 2005/06



## Expenditure by Service Area Fiscal Year 2005/06



**CAPITAL IMPROVEMENT PLAN**  
**General Capital Projects**  
**Fiscal Years 2005/06 through 2009/10**

<b>Project</b>	<b>Fiscal Year 2005/06</b>	<b>Fiscal Year 2006/07</b>	<b>Fiscal Year 2007/08</b>	<b>Fiscal Year 2008/09</b>	<b>Fiscal Year 2009/10</b>	<b>Total</b>
<b><i>Expenditures</i></b>						
1924 Courthouse Cooling Tower	\$32,000	\$0	\$0	\$0	\$0	32,000
Ambulance Automation	0	100,000	0	0	0	100,000
Contingency	50,000	50,000	50,000	50,000	50,000	250,000
Dental Practice - Public Health	0	50,000	0	0	0	50,000
Election Equipment Upgrade	0	0	0	65,000	0	65,000
Future Debt Service - Jail	(1,000,000)	0	0	0	0	(1,000,000)
Future Projects	0	200,000	200,000	200,000	200,000	800,000
General Renovations	50,000	50,000	50,000	0	0	150,000
GIS Servers	0	0	50,000	0	0	50,000
Imaging System	30,000	0	0	0	0	30,000
Infrastructure Upgrades	0	223,000	0	0	0	223,000
Justice Center Roof	140,000	0	0	0	0	140,000
Library Automation	(4,993)	0	0	0	0	(4,993)
Library Expansion	0	0	300,000	300,000	300,000	900,000
Library Genealogy Renovations	(20,516)	0	0	0	0	(20,516)
Library Renovations	(1,582)	0	0	0	0	(1,582)
Microsoft Licensing	100,000	100,000	100,000	125,000	125,000	550,000
Mobile Building Inspections	140,000	0	0	0	0	140,000
PeopleSoft Upgrade	75,000	0	0	0	0	75,000
Radio Console Upgrade	245,000	0	0	0	0	245,000
St. Stephens Library Roof	22,000	0	0	0	0	22,000
Transfer to Debt Service	1,000,000	0	0	0	0	1,000,000
<b>Total</b>	<b>\$856,909</b>	<b>\$673,000</b>	<b>\$750,000</b>	<b>\$740,000</b>	<b>\$675,000</b>	<b>\$3,694,909</b>
<b><i>Funding Sources</i></b>						
General Capital Projects Fund Balance	\$197,000	\$0	\$0	\$0	\$0	\$197,000
General Fund	\$274,909	\$673,000	\$750,000	\$740,000	\$675,000	\$3,112,909
Building Services Fees	\$140,000	\$0	\$0	\$0	\$0	\$140,000
E-911 Fund	\$245,000	\$0	\$0	\$0	\$0	\$245,000
<b>Total</b>	<b>\$856,909</b>	<b>\$673,000</b>	<b>\$750,000</b>	<b>\$740,000</b>	<b>\$675,000</b>	<b>\$3,497,909</b>

**Notes:**

- The Radio Console Upgrade is included in Fund 202.
- The Mobile Building Services project is included in the Building Services cost center.

## **General Capital Projects**

### **1924 Courthouse Cooling Tower**

The cooling tower is used to dissipate heat from the air conditioning units. The current tower is 15 years old and requires many repairs from leaks due to extensive corrosion. \$32,000 is included in Fiscal Year 2005/06 to replace the cooling tower.

### **Ambulance Automation**

Emergency Medical Services (EMS) maintains a variety of information regarding the answering of calls and transport of patients. \$100,000 is planned for Fiscal Year 2006/07 for the automation of record keeping for all bases and ambulances.

### **Contingency**

Catawba County does not budget contingency in each individual project, but uses one amount to cover any unexpected costs.

### **Dental Practice**

The Board of Health approved a Dental Practice in June of 2003. The project would be funded in most part by contributions and donations. The estimated cost of the project is \$1,800,000. Of this amount, \$75,000 is being funded by Escrow – Dental Medicaid Maximization revenues received by the Health Department. The County funded \$150,000 in Fiscal Year 2003/04, \$100,000 in Fiscal Year 2004/05, and \$50,000 in Fiscal Year 2005/06 for a total of \$300,000.

### **Election Equipment Upgrade**

The Board of Elections purchased new voting tabulators in 2004. Along with the new tabulating system, notebook computers were required for each precinct. The notebook computers allow election results to be submitted quickly from each precinct on election night and allow precinct workers to quickly verify voter registration information. \$65,000 is planned for Fiscal Year 2008/09 to replace these computers.

### **General Renovations**

\$50,000 is included in Fiscal Year 2005/06 based on some identified projects such as expanding Utilities & Engineering into the current Economic Development Commission space and interior and exterior painting at the Main Library. In addition, this provides funds for unanticipated, large building needs that may occur during the year.

### **Geographic Information Service (GIS) Servers**

The GIS provides services to many customers. The computer servers that store the GIS information must be replaced every five (5) years. In 2005, the server that provides information for the public on the County website will be replaced. Funds in the amount of \$50,000 are planned for Fiscal Year 2007/08 to replace the GIS server that provides services to the County and municipalities.

**Imaging System**

This system will provide for online retrieval of information for many departments and will decrease the cost of record storage. \$27,000 has been spent in Fiscal Year 2004/05 to purchase the base system. An additional \$30,000 is included in Fiscal Year 2005/06 to increase storage and scanning capabilities for other departments such as Personnel, Veterans' Services, Finance, and the Permit Center.

**Infrastructure Upgrades**

The Information Technology Center (ITC) currently provides automation services to all County agencies. The County has an extensive network that encompasses wired, fiber, wireless, cable modem, and dial-up communications. ITC must continually replace these switches to ensure that the County can continue to conduct business. \$223,000 is planned for Fiscal Year 2006/07 to provide these upgrades.

**Justice Center Roof**

The existing Justice Center Roof is 25 years old. Numerous leaks have developed over the past several years and patching the damaged areas that continue to develop has become very expensive. \$140,000 is included in Fiscal Year 2005/06 to replace the roof.

**Library Expansion**

A Library System Master Plan has been completed identifying needs with regards to space, operating efficiencies, and location issues. Renovations of the Main Library, including an improved entrance, additional parking, and Genealogy are the top priority. \$300,000 is planned for Fiscal Years 2007/08 through 2010/11 for a new branch library facility for Sherrills Ford. The total estimated construction cost for Sherrills Ford is \$1,200,000 including land.

**Microsoft Licensing**

The County must purchase software license in order to use said software. The Information Technology Center has developed a long-term plan to keep the County in compliance. \$100,000 is committed each year for the project. This amount will increase to \$125,000 in Fiscal Year 2008/09.

**Mobile Building Inspections**

Building Inspectors will be provided with mobile computers and printers to allow real-time inspection results for building contractors. This will also provide electronic access to Building Code reference material, Internet, and e-mail for the Inspectors. Coordinating and revising inspection schedules can be done as needed throughout the day. Building Inspectors will be home-based; therefore, able to spend more time in the field and less time in the office. \$140,000 is included in Fiscal Year 2005/06, and the project is funded by Building Services Fees.

**PeopleSoft Upgrade**

\$75,000 is included in Fiscal Year 2005/06 to replace the service for the PeopleSoft HR system and to provide consulting services for the upgrade to the HR software.



**Radio Console Upgrade**

The E-911 Center upgraded and implemented their current Radio Console System in May 2000. This upgrade changed each console from antiquated key and button system to an updated client/server application. Technical support for the current system will no longer be provided after July 2008. \$245,000 is included in the E-911 Fund in Fiscal Year 2005/06 to replace this system. Motorola, our current provider, requires this system be in place by December 2005.

**St. Stephens Library Roof**

The existing roof at the St. Stephens Branch Library is 17 years old. Numerous repairs are required due to poor installation of original roof. \$22,000 is included in Fiscal Year 2005/06 to replace the roof.

**Schools' Construction Projects**  
**Fiscal Years 2005/06 through 2009/10**

<b>Project</b>	<b>Fiscal Year 2005/06</b>	<b>Fiscal Year 2006/07</b>	<b>Fiscal Year 2007/08</b>	<b>Fiscal Year 2008/09</b>	<b>Fiscal Year 2009/10</b>	<b>Total</b>
<b><i>Expenditures</i></b>						
<b>Catawba County</b>						
Arndt Middle School Renovations	0	0	0	2,700,000	0	2,700,000
New Elementary School	0	9,200,000	0	9,400,000	9,850,000	28,450,000
<b>Total</b>	<b>\$0</b>	<b>\$9,200,000</b>	<b>\$0</b>	<b>\$12,100,000</b>	<b>\$9,850,000</b>	<b>\$31,150,000</b>
<b>Hickory City</b>						
Hickory High Renovations	0	0	3,000,000	0	0	3,000,000
New Elementary School	0	0	0	9,900,000	0	9,900,000
	<b>\$0</b>	<b>\$0</b>	<b>\$3,000,000</b>	<b>\$9,900,000</b>	<b>\$0</b>	<b>\$12,900,000</b>
<b>Newton-Conover</b>						
New Elementary School	0	0	7,400,000	0	0	7,400,000
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$7,400,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$7,400,000</b>
<b>Catawba Valley Community College</b>						
Equipment	0	0	1,300,000	0	0	1,300,000
Renovate Old Library	0	0	800,000	0	0	800,000
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,100,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,100,000</b>
<b>Total</b>	<b>\$0</b>	<b>\$9,200,000</b>	<b>\$12,500,000</b>	<b>\$22,000,000</b>	<b>\$9,850,000</b>	<b>\$53,550,000</b>
<b><i>Funding Sources</i></b>						
Installment Purchase	\$0	\$9,200,000	\$12,500,000	\$22,000,000	\$9,850,000	\$53,550,000
<b>Total</b>	<b>\$0</b>	<b>\$9,200,000</b>	<b>\$12,500,000</b>	<b>\$22,000,000</b>	<b>\$9,850,000</b>	<b>\$53,550,000</b>

**CAPITAL IMPROVEMENT PLAN**  
**Water & Sewer Projects**  
**Fiscal Years 2005/06 through 2009/10**

<b>Project</b>	<b>Fiscal Year 2005/06</b>	<b>Fiscal Year 2006/07</b>	<b>Fiscal Year 2007/08</b>	<b>Fiscal Year 2008/09</b>	<b>Fiscal Year 2009/10</b>	<b>Total</b>
<b><i>Expenditures</i></b>						
Bandys / Mill Creek Sewer	\$0	\$300,000	\$2,700,000	\$0	\$0	\$3,000,000
Bunker Hill/Riverbend/Oxford Schools Wastewater	2,930,000	0	0	0	0	2,930,000
EPA Stormwater Phase II	50,000	50,000	50,000	50,000	50,000	250,000
Feasibility Study & Engineering	10,000	10,000	10,000	10,000	10,000	50,000
Molly's Backbone/Mombo/Long Island Water Loop	0	0	900,000	0	0	900,000
Mountain View Sewer Phase I	0	0	0	2,500,000	0	2,500,000
Mountain View Sewer Phase II	0	0	0	0	2,500,000	2,500,000
Oxford Park/Rockett Terrace	0	0	0	0	388,000	388,000
Regional Biosolids Processing Facility	300,000	TBD	TBD	TBD	TBD	300,000
SECC Water Improvements	0	0	1,500,000	0	0	1,500,000
SECC Wastewater Improvements	2,000,000	0	0	0	0	2,000,000
SECC Water Supply Loop Phase III	150,000	4,500,000	0	0	0	4,650,000
Sludge Compost Facility	300,000	300,000	300,000	300,000	300,000	1,500,000
Stormwater Layers - Flyover	240,000	0	0	0	0	240,000
<b>Total</b>	<b>\$5,980,000</b>	<b>\$5,160,000</b>	<b>\$5,460,000</b>	<b>\$2,860,000</b>	<b>\$3,248,000</b>	<b>\$22,708,000</b>
<b><i>Funding Sources</i></b>						
Domestic Haulers	\$77,018	\$78,556	\$801,295	\$81,732	\$83,366	\$1,121,967
State Grants	1,988,000	0	0	0	0	1,988,000
General Fund	1,950,000	1,950,000	1,989,000	2,028,780	2,069,355	9,987,136
Capital Reserves*	1,964,982	3,131,444	2,669,705	749,488	1,095,279	9,610,898
<b>Total</b>	<b>\$5,980,000</b>	<b>\$5,160,000</b>	<b>\$5,460,000</b>	<b>\$2,860,000</b>	<b>\$3,248,000</b>	<b>\$22,708,001</b>

\*Capital Reserves include revenues paid to the County from capital fees and revenue generating contracts for water and sewer lines.

\*Working capital for grants is incorporated in the CIP.

## **Water and Sewer Projects**

### **Bunker Hill/Riverbend/Oxford Wastewater**

Provisions for wastewater service to serve Bunker Hill High School, Oxford Elementary School, and Riverbend Middle School must be made in order to address severe failing septic systems at both Bunker Hill and Oxford. Riverbend would connect to sewer service when necessary, since its septic system is functioning properly. \$2,930,000 is included in the Fiscal Year 2005/06 budget for construction; however, a portion of will be offset with the award of a Clean Water Bond Grant.

### **EPA Stormwater Phase II**

\$50,000 is included each year for the development of anticipated local stormwater program to maintain compliance with Federal (EPA) and State (DENR) Stormwater Regulations.

### **Feasibility Study and Engineering**

Each year, the National Pollutant Discharge Elimination System (NPDES) samples seven points along Lake Norman for water protection. This is an ongoing project, including \$10,000 each of the next five years, to ensure the safety of the water on Lake Norman and as a baseline for future infrastructure additions and its impact to water quality.

### **Regional Bio-solids Processing Facility**

The goal of this project is to relocate biosolids processing to the County's Blackburn Landfill and utilize more efficient, state of the art, thermal drying equipment and other processes. Relocating the facility to the landfill will allow the County to take advantage of synergies with other ongoing and planned activities at the landfill; thus, providing for improved economics for delivering services required by its citizenry and neighboring communities. \$300,000 is included in Fiscal Year 2005/06 for conceptual development and preliminary design. A business plan is included in the design and implementation phase, which will establish fee schedule and facility operational budget that replenishes 100% of the implementation cost to the water and sewer reserve fund and will function as an enterprise without requiring any tax proceeds.

### **SECC Wastewater Engineering Design**

Provisions for off site wastewater treatment must be made in order for the vision of the Sherrills Ford Small Area Plan to come to fruition. Immediate wastewater needs include the identified Village Center on NC Highway 150 in the Terrell area and the increased residential development occurring in the Sherrills Ford area. This project will allow the study of options to be considered and the engineering design of the chosen option(s) to begin. \$2,000,000 is included in Fiscal Year 2005/06.

**SECC Water Supply Loop Phase III-Engineering Design**

This is the beginning of the third of three phases for installing a waterline loop to supply adequate water to the Southeastern Catawba County (SECC) Service Area. The engineering design of Phase III was included in the Fiscal Year 2004/05 budget. \$150,000 is included in the Fiscal Year 2005/06 budget to allow for permitting, easement acquisitions and bidding process. The Construction and Engineering Inspection/Management for Phase III will be included in the Fiscal Year 2006/07 budget.

**Sludge Composting Facility**

Catawba County owns 18.5% of the Sludge Composting Facility, and this project represents the County's anticipated share of the debt service, maintenance, and operational costs of the facility. \$300,000 is included in Fiscal Year 2005/06 as the County's share.

**Stormwater Layers-Flyover**

\$240,000 is included in Fiscal Year 2005/06 for the County flyover to update Land Use, Impervious Surfaces, and Transportation Layers in the Geographical Information System (GIS). These layers will prove invaluable in the County's efforts to comply with Federal and State Stormwater Regulations and our ability to track impervious surface percentages.

**CAPITAL IMPROVEMENT PLAN**  
**Solid Waste Projects**  
**Fiscal Years 2005/06 through 2009/10**

<b>Project</b>	<b>Fiscal Year 2005/06</b>	<b>Fiscal Year 2006/07</b>	<b>Fiscal Year 2007/08</b>	<b>Fiscal Year 2008/09</b>	<b>Fiscal Year 2009/10</b>	<b>Total</b>
<b><i>Expenditures</i></b>						
Blackburn Landfill						
Equipment	750,000	875,000	770,000	677,000	652,000	3,724,000
Fencing	100,000	0	0	0	0	100,000
Other	20,000	25,000	25,000	25,000	25,000	120,000
Property Purchase	360,000	0	109,770	0	0	469,770
Sewer Line Extension	210,000	0	0	0	0	210,000
Wilfong Road Closing	25,000	50,000	0	0	0	75,000
Blackburn Landfill Unit 3						
Construction	\$0	\$0	\$3,200,000	\$3,200,000	\$0	\$6,400,000
Design	300,000	0	95,000	80,000	0	475,000
Other	1,800,000	100,000	0	0	0	1,900,000
C & D Landfill						
Construction	\$0	\$1,400,000	\$0	\$0	\$0	\$1,400,000
Design	0	40,000	0	0	0	40,000
Methane Energy - Blackburn						
Equipment	\$448,000	\$0	\$0	\$0	\$0	\$448,000
Site Development	0	0	25,000	0	0	25,000
Other	0	3,300	0	0	0	3,300
Newton Landfill						
Groundwater Remediation	\$53,040	\$54,631	\$56,271	\$57,958	\$59,696	\$281,596
Methane Gas Remediation	60,000	61,800	63,654	65,563	67,530	318,547
Convenience Centers						
Improvements	\$15,000	\$20,000	\$0	\$0	\$0	\$35,000
<b>Total</b>	<b>\$4,141,040</b>	<b>\$2,629,731</b>	<b>\$4,344,695</b>	<b>\$4,105,521</b>	<b>\$804,226</b>	<b>\$16,025,213</b>
<b><i>Funding Sources</i></b>						
Tipping Fees	\$4,041,040	\$2,529,731	\$4,244,695	\$4,005,521	\$704,226	\$15,525,213
Methane Revenues	100,000	100,000	100,000	100,000	100,000	500,000
<b>Total</b>	<b>\$4,141,040</b>	<b>\$2,629,731</b>	<b>\$4,344,695</b>	<b>\$4,105,521</b>	<b>\$804,226</b>	<b>\$16,025,213</b>

## **Solid Waste Projects**

### **Blackburn Landfill**

Fencing is required to secure landfill property and to help contain wind blown trash. Due to the acquisition of property additional fencing is now needed. State regulations require that sanitary landfills be properly secure to protect public health. This fencing project will secure the Mauser, Knox, Hefner and Xiong properties. Fencing will be bid and installed after the closing of Wilfong Road. \$100,000 is included in Fiscal Year 2005/06 for the fencing project.

Funds are also included for Grading and Erosion Control for future soil borrow areas design, plans, and permitting.

Gravity Sewer lines are needed to handle leachate generated from Blackburn Landfill operations. This line will be in lieu of using over the road tankers to haul the 6 tanker loads (6,400 gallon capacity) of leachate each day to the wastewater treatment plant. \$210,000 is included in Fiscal Year 2005/06.

On February 7, 2005, the Board of Commissioners approved the purchase of 36.76-acre tract at 4918 Hickory Lincolnton Highway owned by Mr. and Mrs. Chu Xiong. The County has agreed to allow Mr. Xiong to remain on the property until August 31, 2005 with closing scheduled for September 1, 2005. The property will provide additional soil borrow area needed because recent purchases and transfers of land have expanded the boundaries of the landfill and increased the expected life of the landfill by 12 years. \$360,000 is included in Fiscal Year 2005/06 for closing the property purchase.

### **Blackburn Landfill Unit 3**

\$300,000 is included in Fiscal Year 2005/06 for engineering, design, site suitability, and permitting for Unit 3 of the Blackburn Landfill SubTitle D Cell.

Gravel is also included for Unit 3 of the Blackburn Landfill SubTitle D Cell. The landfill cell requires a two-foot thick layer of wash stone for drainage of leachate into a collection system. The gravel will be purchased and hauled to the landfill over a 2-year period. This will allow the rock quarry production time, saving money through transporting gravel during winter months when haulers are not as busy, thus providing the County with the best pricing. \$1,800,000 is included in Fiscal Year 2005/06.

### **Biosolids/Bioreactor Research**

The goal of this project is to relocate biosolids processing to the County's Blackburn Landfill and utilize more efficient, state of the art, thermal drying equipment and other processes. Relocating the facility to the Landfill will allow the County to take advantage of synergies with other ongoing and planned activities at the Landfill; thus, providing for improved economics for delivering services required by its citizenry and neighboring communities. \$300,000 is included in Fiscal Year 2005/06 for conceptual development and preliminary design. An additional \$300,000 is included in Fiscal Year 2005/06 Water and Sewer projects.

**Miscellaneous Landfill Equipment**

The existing diesel fuel tank is showing severe signs of wear resulting in possible leakage. The new diesel fuel tank will store 7,000-gallons of fuel and is needed to operate the equipment at the landfill needed in daily operations. \$20,000 is included in Fiscal Year 2005/06 to replace the fuel tank.

A new bulldozer will replace a 1998 Caterpillar D5M with approximately 9,000 hours. Dozers are used to keep the landfill dumping area clean for customers to unload, and to place daily cover over refuse area. \$200,000 is included in Fiscal Year 2005/06.

A 100,000-pound compactor will replace a 1999 Al-Jon compactor with over 11,000 hours. Compactors are the most important machinery used in the operations of the landfill and must be kept in good working condition. \$500,000 is included in Fiscal Year 2005/06. Since compactors cost one-half million dollars, purchases are scrutinized.

A hand pipe welder is needed to install and repair gas collection pipe in the landfill. Staff has assumed maintenance on the gas collection system from Enerdyne. \$10,000 is included in Fiscal Year 2005/06.

A heavy-duty lawnmower is needed to maintain approximately 5-acres of Landfill property around the office complex area. \$20,000 is included in Fiscal Year 2005/06.

\$15,000 for one attendant building replacement is included in the Fiscal Year 2005/06 budget. The completion of the evaluation will reflect which building needs to be replaced.

**GE Jenbacher Unit 4 Engine/Standby Generator/Blower**

This was budgeted in Fiscal Year 2004/05, but due to the Biosolids/Bio-Reactor Project, further analysis is required to determine equipment size and appurtenances prior to purchasing; this project is postponed until Fiscal Year 2005/06. North Carolina Department of Environment and Natural Resources (DENR) requires a permanent standby engine/generator/blower for all wastewater pump stations. The Waste-to-Energy facility is too large output to serve this purpose. This will also negate Duke Power demand charges on the facility, which average \$1,200 monthly. A demand charge occurs when the County Waste-to-Energy facility is down and requires energy from Duke Power. With the Biosolids/Bio-Reactor Project, staff is pursuing economy of scale opportunities, which may further change the scope of project. \$448,000 is included in Fiscal Year 2005/06.



**CATAWBA COUNTY, NORTH CAROLINA**  
**General Long-Term Debt Requirements and Maturity Schedule**  
**For the Year Ended June 30, 2004**

Fiscal Year Ended June 30	Existing Debt		
	Principal	Interest	Total
\$2,005	7,849,778	2,879,351	10,729,129
\$2,006	6,980,000	2,538,780	9,518,780
\$2,007	6,790,000	2,239,866	9,029,866
\$2,008	6,910,000	1,945,806	8,855,806
\$2,009	6,955,000	1,644,288	8,599,288
\$2,010	7,050,000	1,338,774	8,388,774
\$2,011	5,825,000	1,019,860	6,844,860
\$2,012	5,055,000	757,144	5,812,144
\$2,013	5,075,000	527,182	5,602,182
\$2,014	3,255,000	296,518	3,551,518
\$2,015	1,465,000	148,704	1,613,704
\$2,016	660,000	82,062	742,062
\$2,017	660,000	58,506	718,506
\$2,018	660,000	35,142	695,142
\$2,019	660,000	11,778	671,778
	<b>\$65,849,778</b>	<b>\$15,523,761</b>	<b>\$81,373,539</b>

Annual debt service requirements to maturity for the County's general obligation bonds as listed above does not include any business type debt.